

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A copying apparatus for copying an image read from an original having a long side and a short side to a recording medium, the copying apparatus comprising:

a first original placement section with a predetermined orientation of the long and short sides of the original to be placed;

a second original placement section with a predetermined orientation of the long and short sides of the original to be placed;

a feeder that transports the original from the first original placement section;

an image read section that reads the image ~~from the original that has been transported from the first original placement section while the image read section is stationary or~~ from the original that has been placed on the ~~second~~first original placement section while the image read section is moved relative to the ~~original; original and from the original that has been transported from the second original placement section while the image read section is~~ stationary;

a storage section that stores data of the image read by the image read section;

a detection section that detects which of the first and second original placement sections the original is placed in;

an image orientation specifying section that specifies whether the top and bottom orientation of the image of the original placed in the first or second original placement section is in parallel with the long side of the original or in parallel with the short side of the original;

an image formation section that forms the image on the recording medium; and

~~a control section that causes the image formation section to form the images of a plurality of originals read by the image read section on one side of one recording medium in a predetermined layout based on the detection result of the detection section and the specification of the image orientation specifying section controls the image formation section,~~

wherein:

the control section causes the image formation section to form images of two originals read by the image read section on one side of one recording medium in a predetermined order and in a predetermined layout based on a plurality of conditions, the plurality of conditions including a first condition, a second condition, a third condition, a fourth condition and a fifth condition,

the first condition is set for the detection section to detect that the original is read from the first original placement section,

the second condition is set for the image orientation specifying section to specify that a long side of the first original placement section is parallel with a top or bottom side of the original,

the third condition is set for the image orientation specifying section to specify that the long side of the original is perpendicular to a top or bottom side of the first original placement section,

the fourth condition is set for the detection section to detect that the original is read from the second original placement section,

the fifth condition is set for the image orientation specifying section to specify that the long side of the first original placement section is perpendicular to the top or bottom side of the original,

the control section causes an image of one original to be rotated by 90 degrees in a clockwise direction when the first condition and the second condition are satisfied before the image of one original is disposed in the predetermined layout,

the control section causes an image of one original to be rotated by 90 degrees in a counterclockwise direction when the first condition and the third condition are satisfied before the image of one original is disposed in the predetermined layout,

the control section causes an image of one original to be rotated by 90 degrees in the clockwise direction when the fourth condition and the second condition are satisfied before the image of one original is disposed in the predetermined layout, and

the control section causes an image of one original to be rotated by 90 degrees in the clockwise direction when the fourth condition and the fifth condition are satisfied before the image of the one original is disposed in the predetermined layout.

2. (Original) The copying apparatus as claimed in claim 1, wherein the image read section reads the image by scanning.

3. (Original) The copying apparatus as claimed in claim 2, wherein a scanning direction, which is parallel with the orientation of the short side of the original, of the image read section when an original is placed in the first original placement section differs from a scanning direction, which is parallel with the orientation of the short side of the original, of the image read section when an original is placed in the second original placement section.

4. (Original) The copying apparatus as claimed in claim 2, wherein a subscanning direction of the image read section parallel with the orientation of the long side of the original when the original is placed in the first original placement section is opposite to a subscanning direction of the image read section parallel with the orientation of the long side of the original when the original is placed in the second original placement section.

5. (Original) The copying apparatus as claimed in claim 1, wherein the image read section reads the images of a plurality of originals while scaling down the images at a predetermined scaling factor and the control section causes the image formation section to form the images of the plurality of originals read by the image read section on one side of one recording medium in a predetermined layout.

6. (Original) The copying apparatus as claimed in claim 1, wherein the control section scales down the images of the plurality of originals read by the image read section at a predetermined scaling factor and causes the image formation section to form the images on one side of one recording medium in a predetermined layout.

7. (Original) The copying apparatus as claimed in claim 1, wherein the control section selectively causes the image formation section to form the images of two originals read by the image read section on one side of one recording medium in a predetermined layout and causes the image formation section to form the images of four originals read by the image read section on one side of one recording medium in a predetermined layout.

8. (Original) The copying apparatus as claimed in claim 7, wherein when a plurality of originals are transported in order from the first original placement section by the feeder and the control section causes the image formation section to form the images of two originals read by the image read section on one side of one recording medium in the predetermined layout, the control section rotates the two images in a different direction depending on whether the top and bottom orientations of the two images are parallel with the long side or the short side of the original, and causes the image formation section to form the rotated two images on one side of one recording medium.

9. (Original) The copying apparatus as claimed in claim 7, wherein when a plurality of originals are placed in the second original placement section in order and the control section causes the image formation section to form the images of two originals read by the

image read section on one side of one recording medium in the predetermined layout, the control section rotates the two images in the same direction regardless of whether the top and bottom orientations of the two images are parallel with the long side or the short side of the original, and causes the image formation section to form the rotated two images on one side of one recording medium.

10. (Original) The copying apparatus as claimed in claim 7, wherein when a plurality of originals are transported in order from the first original placement section by the feeder and the control section causes the image formation section to form the images of four originals read by the image read section on one side of one recording medium in the predetermined layout, the control section does not rotate the four images regardless of whether the top and bottom orientations of the four images are parallel with the long side or the short side of the original, and causes the image formation section to form the four images on one side of one recording medium.

11. (Original) The copying apparatus as claimed in claim 7, wherein when a plurality of originals are placed in the second original placement section in order and the control section causes the image formation section to form the images of four originals read by the image read section on one side of one recording medium in the predetermined layout, if the top and bottom orientations of the four images are parallel with the long side of the original, the control section does not rotate the four images and causes the image formation section to form the four images on one side of one recording medium and if the top and bottom orientations of the four images are parallel with the short side of the original, the control section rotates the four images 180° and causes the image formation section to form the rotated four images on one side of one recording medium.

12. (Currently Amended) A method of operating a copying apparatus including a ~~image~~ an image read unit to read an image from an original having a long side and a short side

placed in a first original placement section or a second original placement section with a predetermined orientation, ~~and an image formation unit to form the image on a recording medium, a detection unit, an image orientation specifying unit and a control unit,~~ the method comprising the steps of:

detecting step of detecting which of the first and second original placement sections the original is placed in;

specifying step of specifying whether the top and bottom orientation of the image of the original is in parallel with the long side of the original or in parallel with the short side of the original;

reading step of reading the image from the original; and

forming step of forming ~~the images of a plurality of originals read by the reading step on one side of one recording medium in a predetermined layout based on the~~ a detection result by the detecting step and the specification by the specifying step,

wherein:

the forming step forms images of two originals read by the reading step on one side of one recording medium in a predetermined order and in a predetermined layout based on a plurality of conditions, the plurality of conditions including a first condition, a second condition, a third condition, a fourth condition and fifth condition,

the first condition is set for the detecting step to detect that the original is read from the first original placement section,

the second condition is set for the specifying step to specify that a long side of the first original placement section is parallel with a top or bottom side of the original,

the third condition is set for the specifying step to specify that the long side of the original is perpendicular to a top or bottom side of the first original placement section,

the fourth condition is set for the detecting step to detect that the original is read from the second original placement section, and

the fifth condition is set for the specifying step to specify that the long side of the first original placement section is perpendicular to the top or bottom side of the original,

the forming step includes:

rotating an image of one original by 90 degrees in a clockwise direction when the first condition and the second condition are satisfied before the image of the one original is disposed in the predetermined layout,

rotating an image of one original by 90 degrees in a counterclockwise direction when the first condition and the third condition are satisfied before the image of one original is disposed in the predetermined layout,

rotating an image of one original by 90 degrees in the clockwise direction when the fourth condition and the second condition are satisfied before the image of one original is disposed in the predetermined layout, and

rotating an image of one original by 90 degrees in the clockwise direction when the fourth condition and the fifth condition are satisfied before the image of one original is disposed in the predetermined layout.

13. (Original) The method according to claim 12, wherein the forming step includes forming the images of two originals read by the reading step on one side of one recording medium in a predetermined layout and forming the images of four originals read by the reading step on one side of one recording medium in a predetermined layout.

14. (Original) The method according to claim 13, wherein the forming step includes rotating the images of originals read by the reading step and forming the images on one side of one recording medium in a predetermined layout based on the detection result, the specification and the number of images to be formed on the one recording medium.

15. (Original) The method according to claim 14, wherein the reading step includes reading the image from the original while scaling down the image at a predetermined scaling factor.

16. (Original) The method according to claim 14, wherein the forming step includes scaling down the images of the originals read by the reading step at a predetermined scaling factor.

17. (New) A copying apparatus for copying an image read from an original having a long side and a short side to a recording medium, the copying apparatus comprising:

- a first original placement section with a predetermined orientation of the long and short sides of the original to be placed;

- a second original placement section with a predetermined orientation of the long and short sides of the original to be placed;

- a feeder that transports the original from the first original placement section;

- an image read section that reads the image from the original that has been placed on the first original placement section while the image read section is moved relative to the original and from the original that has been transported from the second original placement section while the image read section is stationary;

- a storage section that stores data of the image read by the image read section;

- a detection section that detects which of the first and second original placement sections the original is placed in;

- an image orientation specifying section that specifies whether the top and bottom orientation of the image of the original placed in the first or second original placement section is in parallel with the long side of the original or in parallel with the short side of the original;

- an image formation section that forms the image on the recording medium; and

- a control section that controls the image formation section,

wherein:

the control section causes an image formation section to form images of four originals read by the image read section on one side of one recording medium in a predetermined order and in a predetermined layout based on a plurality of conditions, the plurality of conditions including a first condition, a second condition, a third condition, a fourth condition and a fifth condition,

the first condition is set for the detection section to detect that the original is read from the first original placement section,

the second condition is set for the image orientation specifying section to specify that a long side of the first original placement section is parallel with a top or bottom side of the original,

the third condition is set for the image orientation specifying section to specify that the long side of the first original placement section is perpendicular to the top or bottom side of the original,

the fourth condition is set for the detection section to detect that the original is read from the second original placement section, and

the fifth condition is set for the image orientation specifying section to specify that the long side of the first original placement section is perpendicular to the top or bottom side of the original,

the control section causes an image of one original not to be rotated when the first condition and the second condition are satisfied before the image of one original is disposed in the predetermined layout,

the control section causes an image of one original not to be rotated when the first condition and the third condition are satisfied before the image of one original is disposed in the predetermined layout,

the control section causes an image of one original not to be rotated when the fourth condition and the second condition are satisfied before the image of one original is disposed in the predetermined layout, and

the control section causes an image of one original to be rotated by 180 degrees in a clockwise direction when the fourth condition and the fifth condition are satisfied before the image of one original is disposed in the predetermined layout.

18. (New) The copying apparatus as claimed in claim 17.

wherein the image read section reads the image by scanning.

19. (New) The copying apparatus as claimed in claim 18,

wherein a scanning direction, which is parallel with the orientation of the short side of the original, of the image read section when an original is placed in the first original placement section differs from a scanning direction, which is parallel with the orientation of the short side of the original, of the image read section when an original is placed in the second original placement section.

20. (New) The copying apparatus as claimed in claim 18,

wherein a subscanning direction of the image read section parallel with the orientation of the long side of the original when the original is placed in the first original placement section is opposite to a subscanning direction of the image read section parallel with the orientation of the long side of the original when the original is placed in the second original placement section.

21. (New) The copying apparatus as claimed in claim 17,

wherein the image read section reads the images of a plurality of originals while scaling down the images at a predetermined scaling factor and the control section causes the image formation section to form the images of the plurality of originals read by the image read section on one side of one recording medium in a predetermined layout.

22. (New) The copying apparatus as claimed in claim 17,

wherein the control section scales down the images of the plurality of originals read by the image read section at a predetermined scaling factor and causes the image formation section to form the images on one side of one recording medium in a predetermined layout.

23. (New) The copying apparatus as claimed in claim 17,

wherein the control section selectively causes the image formation section to form images of two originals read by the image read section on one side of one recording medium in a predetermined layout and causes the image formation section to form the images of four originals read by the image read section on one side of one recording medium in a predetermined layout.

24. (New) The copying apparatus as claimed in claim 23,

wherein when a plurality of originals are transported in order from the first original placement section by the feeder and the control section causes the image formation section to form the images of two originals read by the image read section on one side of one recording medium in the predetermined layout, the control section rotates the two images in a different direction depending on whether the top and bottom orientations of the two images are parallel with the long side or the short side of the original, and causes the image formation section to form the rotated two images on one side of one recording medium.

25. (New) The copying apparatus as claimed in claim 23,

wherein when a plurality of originals are placed in the second original placement section in order and the control section causes the image formation section to form the images of two originals read by the image read section on one side of one recording medium in the predetermined layout, the control section rotates the two images in the same direction regardless of whether the top and bottom orientations of the two images are parallel with the long side or

the short side of the original, and causes the image formation section to form the rotated two images on one side of one recording medium.

26. (New) The copying apparatus as claimed in claim 23,

wherein when a plurality of originals are transported in order from the first original placement section by the feeder and the control section causes the image formation section to form the images of four originals read by the image read section on one side of one recording medium in the predetermined layout, the control section does not rotate the four images regardless of whether the top and bottom orientations of the four images are parallel with the long side or the short side of the original, and causes the image formation section to form the four images on one side of one recording medium.

27. (New) The copying apparatus as claimed in claim 23,

wherein when a plurality of originals are placed in the second original placement section in order and the control section causes the image formation section to form the images of four originals read by the image read section on one side of one recording medium in the predetermined layout, if the top and bottom orientations of the four images are parallel with the long side of the original, the control section does not rotate the four images and causes the image formation section to form the four images on one side of one recording medium and if the top and bottom orientations of the four images are parallel with the short side of the original, the control section rotates the four images 180 degrees and causes the image formation section to form the rotated four images on one side of one recording medium.

28. (New) A method of operating a copying apparatus including an image read unit to read an image from an original having a long side and a short side placed in a first original placement section or a second original placement section with a predetermined orientation, an image formation unit to form the image on a recording medium, a detection unit, an image orientation specifying unit and a control unit, the method comprising the steps of:

detecting step of detecting which of the first and second original placement sections the original is placed in;

specifying step of specifying whether the top and bottom orientation of the image of the original is in parallel with the long side of the original or in parallel with the short side of the original;

reading step of reading the image from the original; and

forming step of forming images of a plurality of originals read by the reading step on one side of one recording medium in a predetermined layout based on a detection result by the detecting step and a specification by the specifying step,

wherein:

the forming step forms images of four originals read by the reading step on one side of one recording medium in a predetermined order and in a predetermined layout based on a plurality of conditions, the plurality of conditions including a first condition, a second condition, a third condition, a fourth condition and a fifth condition,

the first condition is set for the detecting step to detect that the original is read from the first original placement section,

the second condition is set for the specifying step to specify that a long side of the first original placement section is parallel with a top or bottom side of the original,

the third condition is set for the specifying step to specify that the long side of the first original placement section is perpendicular to the top or bottom side of the original,

the fourth condition is set for the detecting step to detect that the original is read from the second original placement section, and

the fifth condition is set for the specifying step to specify that the long side of the first original placement section is perpendicular to the top or bottom side of the original,

the forming step includes:

not rotating an image of one original when the first condition and the second condition are satisfied before the image of one original is disposed in the predetermined layout,

not rotating an image of one original when the first condition and the third condition are satisfied before the image of one original is disposed in the predetermined layout,

not rotating an image of one original not to be rotated when the fourth condition and the second condition are satisfied before the image of one original is disposed in the predetermined layout, and

rotating an image of one original by 180 degrees in a clockwise direction when the fourth condition and the fifth condition are satisfied before the image of the one original is disposed in the predetermined layout.

29. (New) The method according to claim 28,

wherein the forming step includes forming images of two originals read by the reading step on one side of one recording medium in a predetermined layout and forming the images of four originals read by the reading step on one side of one recording medium in a predetermined layout.

30. (New) The method according to claim 29,

wherein the forming step includes rotating the images of originals read by the reading step and forming the images on one side of one recording medium in a predetermined layout based on the detection result, the specification and the number of images to be formed on the one recording medium.

31. (New) The method according to claim 30,

wherein the reading step includes reading the image from the original while scaling down the image at a predetermined scaling factor,

32. (New) The method according to claim 30,

wherein the forming step includes scaling down the images of the originals read by the reading step at a predetermined scaling factor.